

### **Abstract**

The invention relates to a method for the combustion of a fuel using an oxygenated gas, in which a jet of fuel and at least two jets of oxygen-rich oxygenated gas are injected. According to the invention, the first jet of oxygen-rich oxygenated gas, known as the primary jet, is injected such as to be in contact with the jet of fuel and to produce a first incomplete combustion, the gases produced by said first combustion comprising at least one part of the fuel, and the second jet of oxygen-rich oxygenated gas is injected at a distance  $l_1$  from the jet of fuel such as to combust with a first part of the fuel present in the gases produced by the first combustion. Moreover, a low-oxygen oxygenated gas is injected at a distance  $l_2$  from the jet of fuel such as to combust with a second part of the fuel present in the gases produced by the first combustion,  $l_2$  being greater than  $l_1$ . The invention also relates to the burner used to carry out the method and to the use of said method for the heating of a glass filler or for a reheating furnace.